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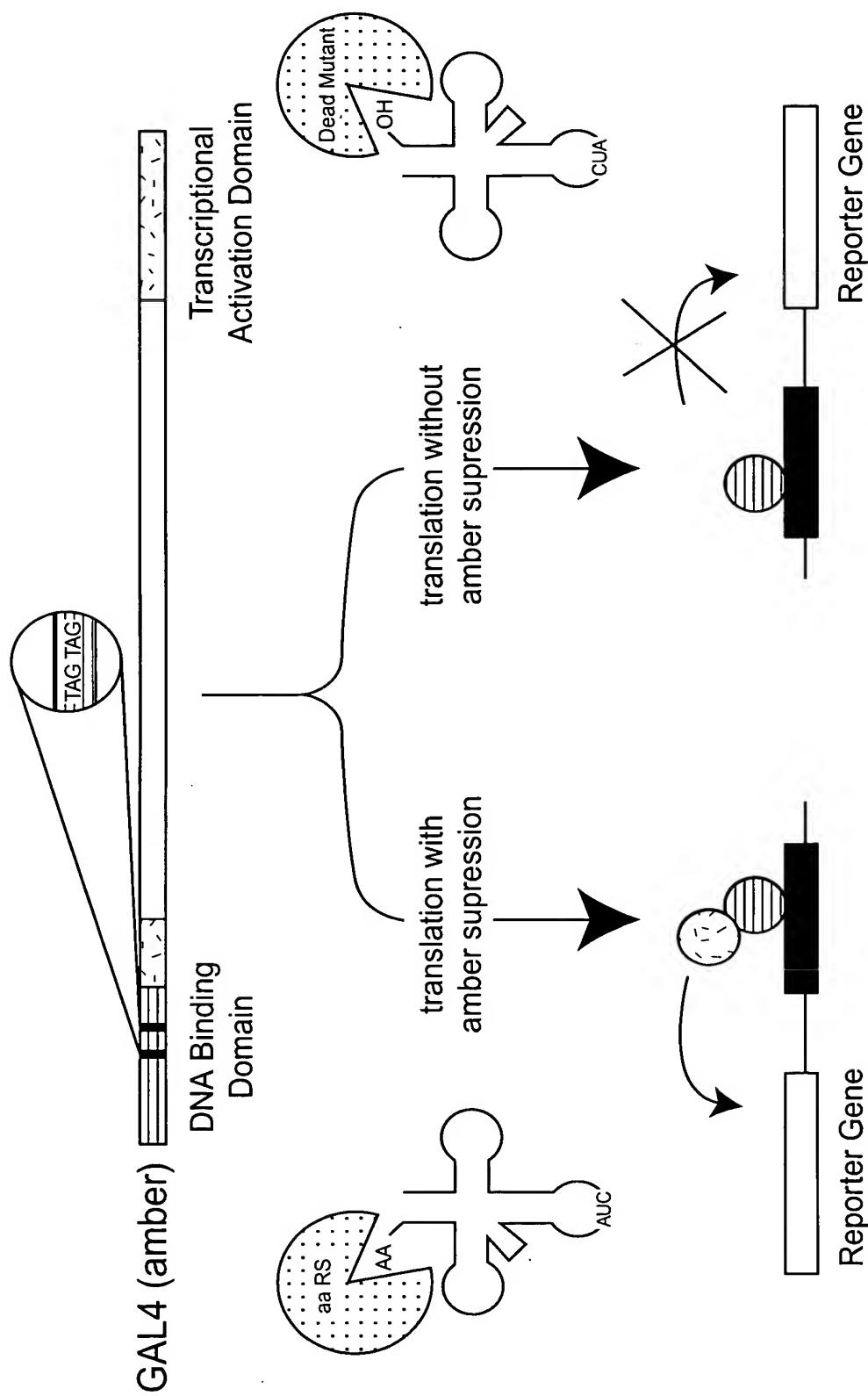


Fig. 1A

UNNATURAL REACTIVE AMINO ACID
GENETIC CODE ADDITIONS
Alexander Deiters, et al.
Serial No.: Not yet known
Attorney Docket No.: 54-000250US

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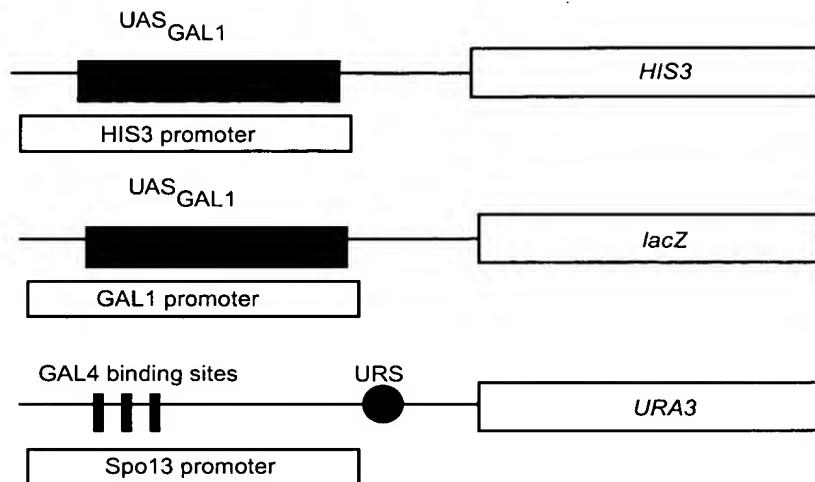


Fig. 1B

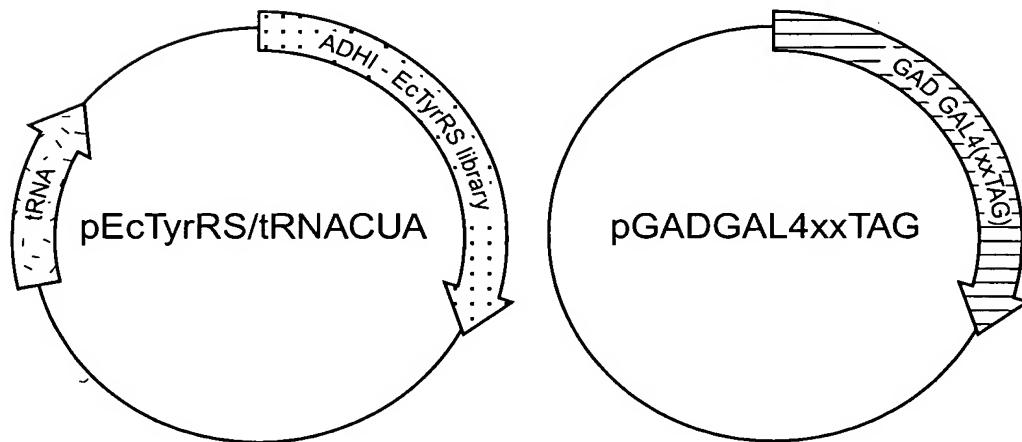


Fig. 1C

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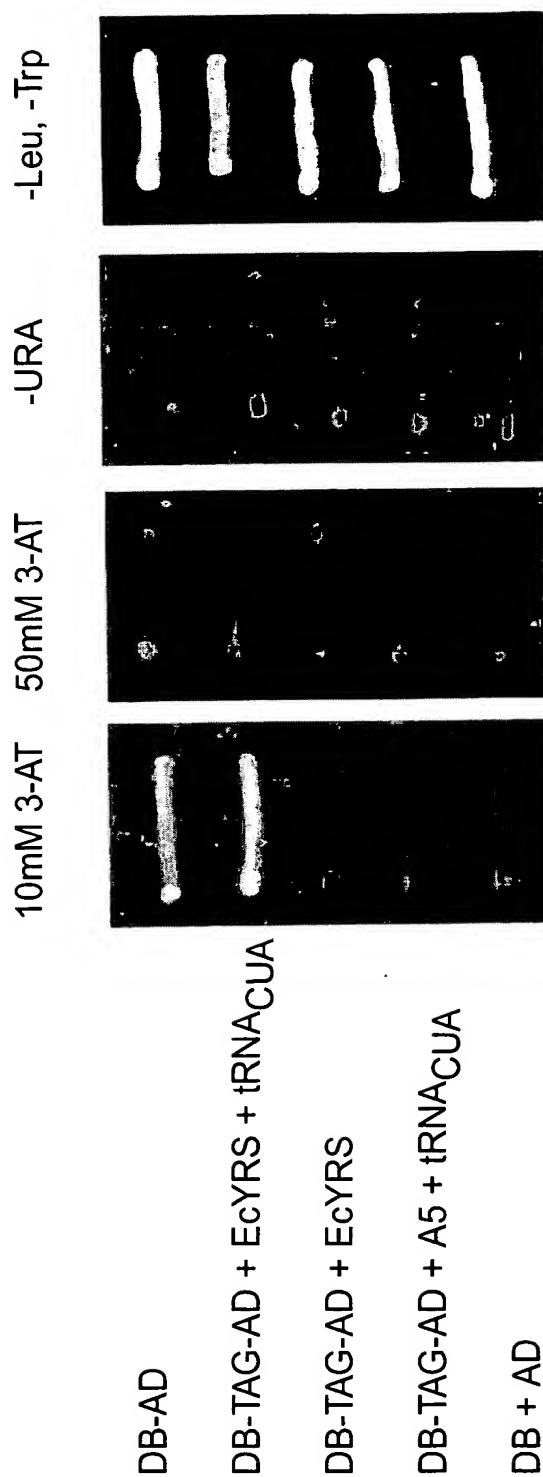


Fig. 2

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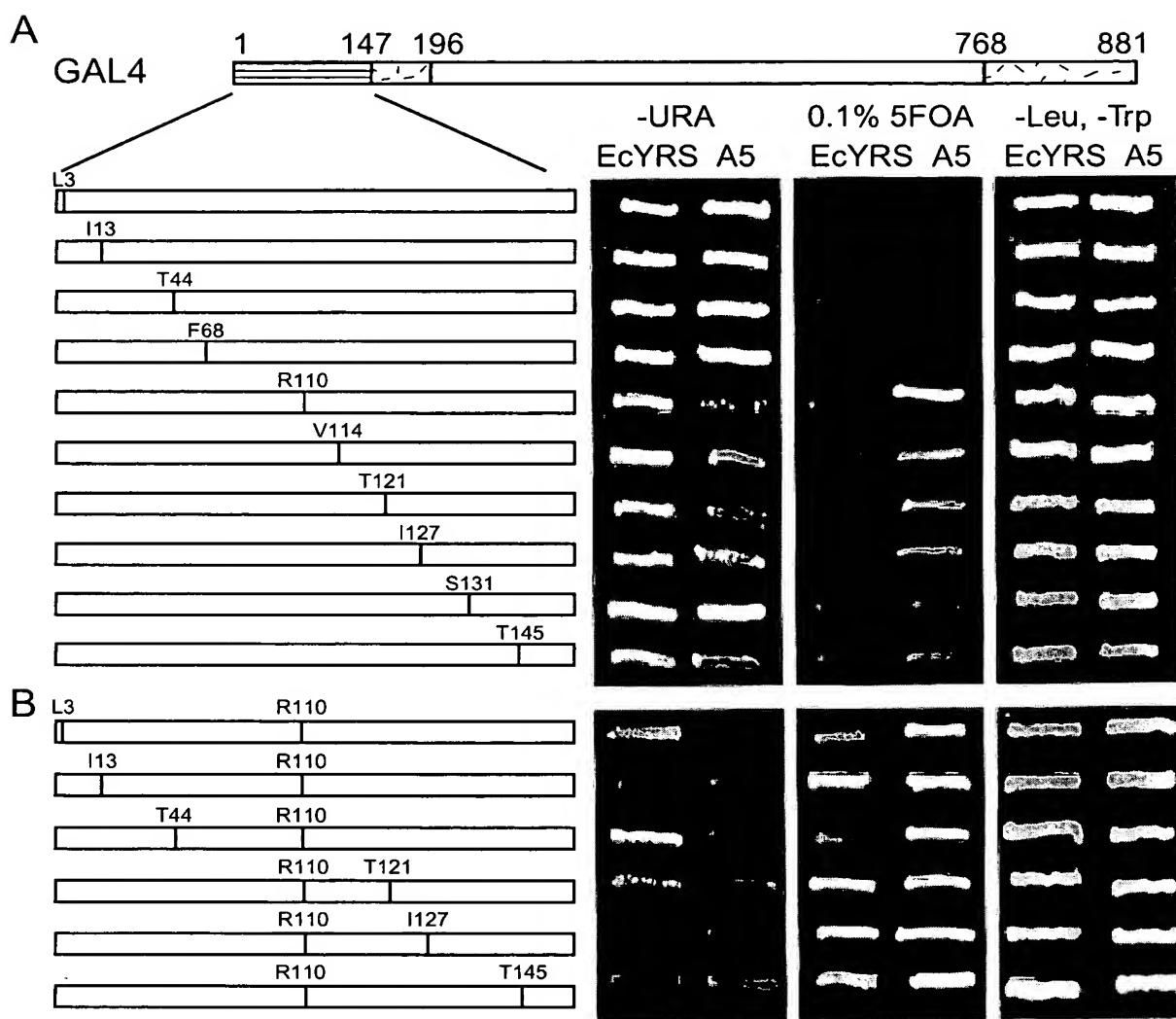


Fig. 3

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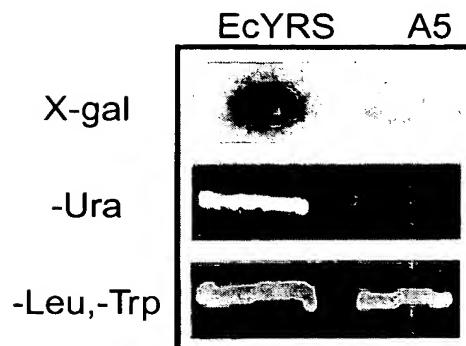


Fig. 4A

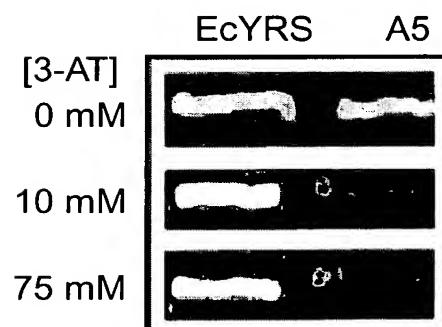


Fig. 4B

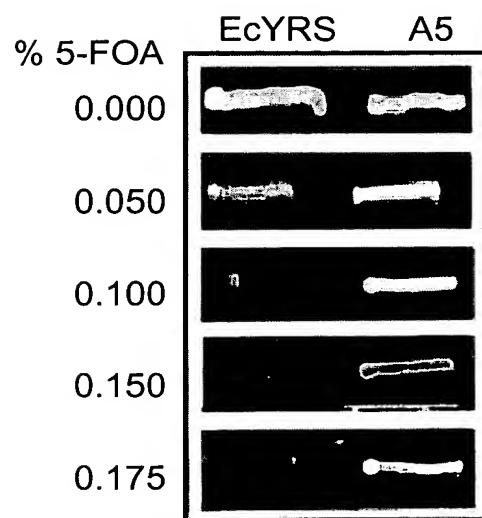


Fig. 4C

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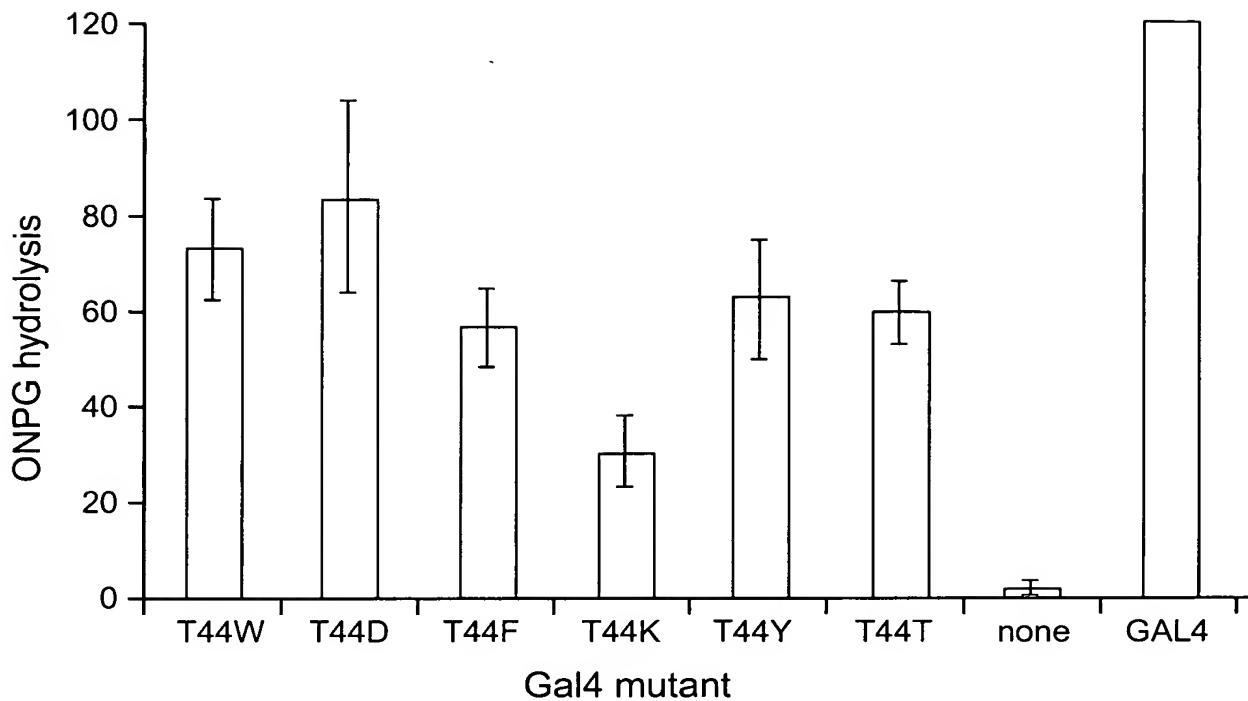


Fig. 5A

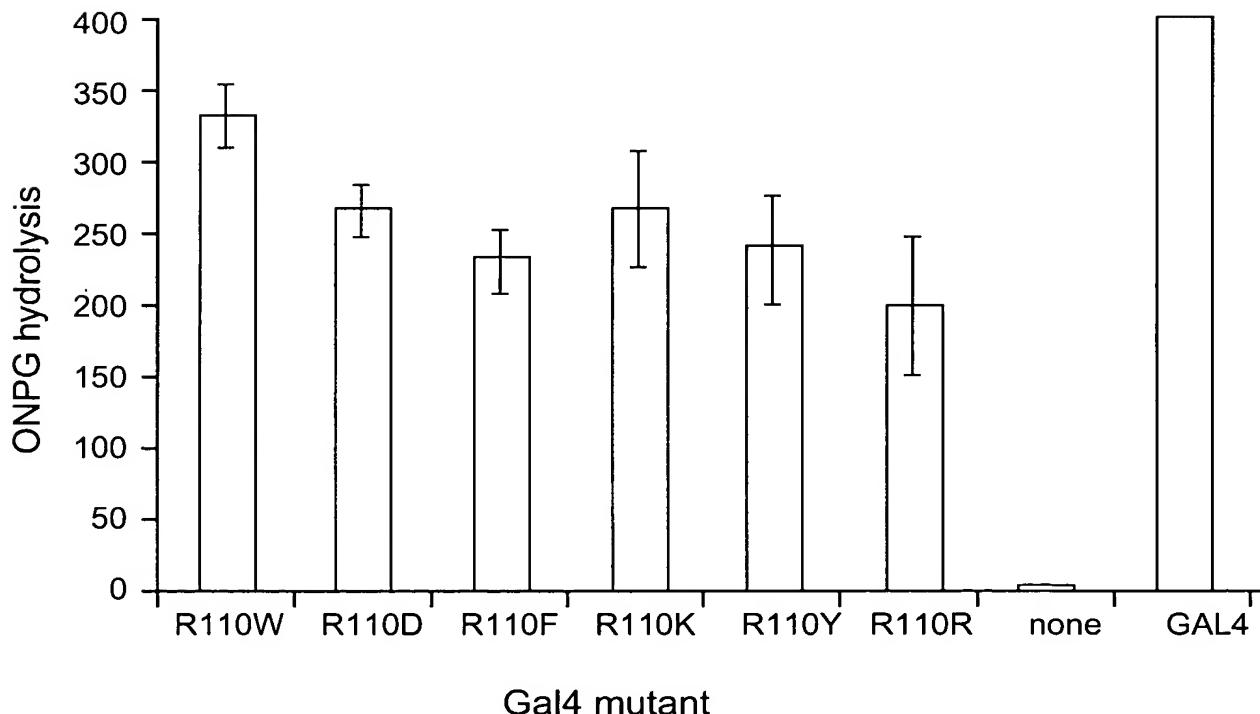


Fig. 5B

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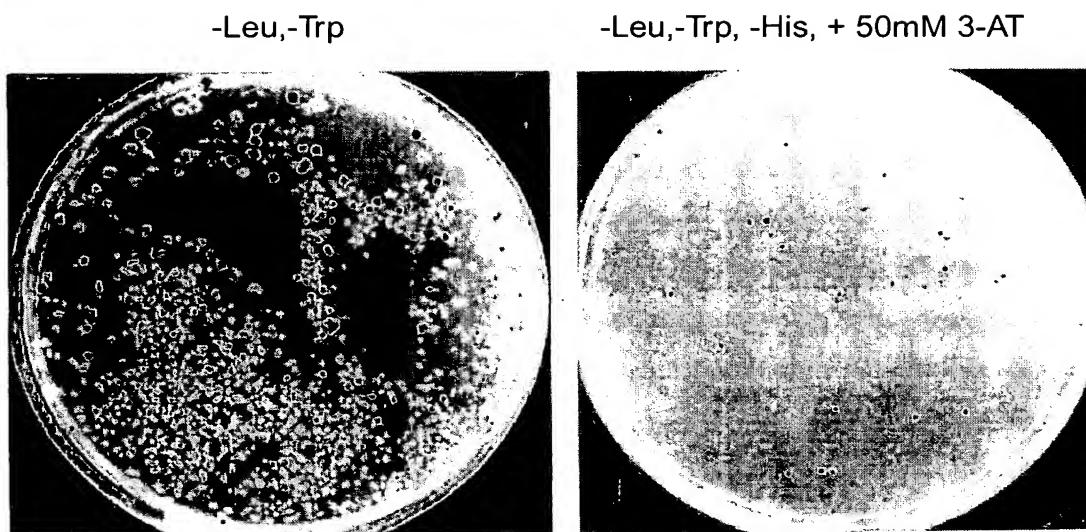


Fig. 6

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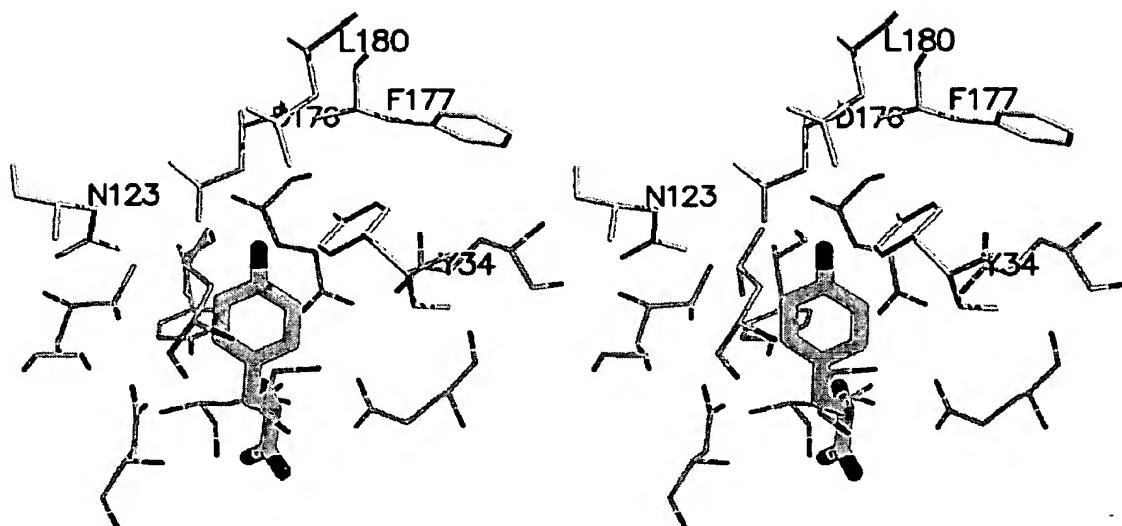


Fig. 7A

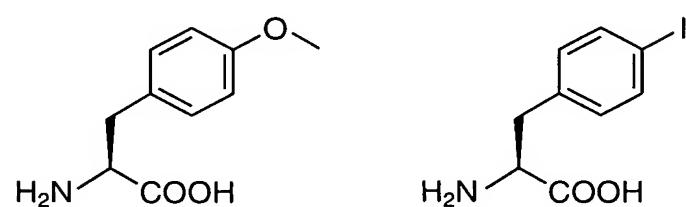
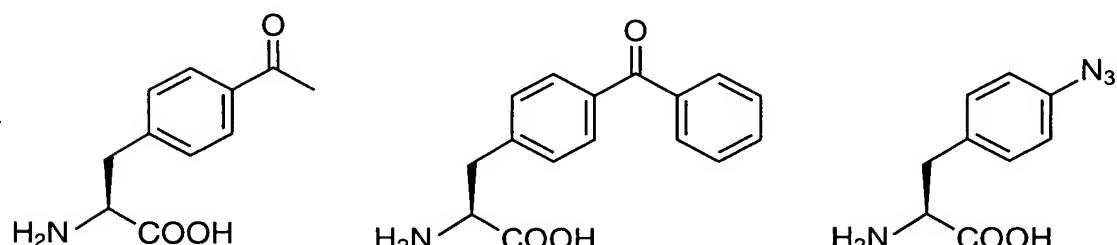


Fig. 7B

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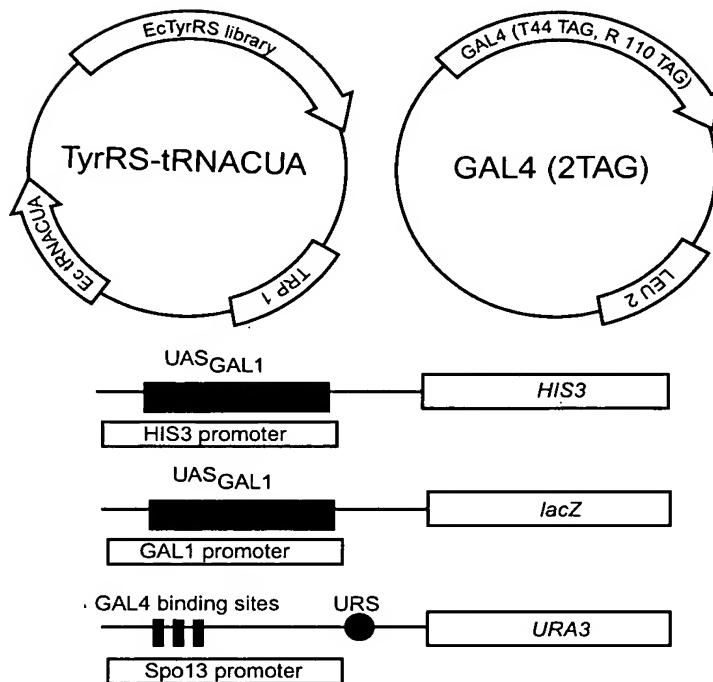


Fig. 8A

aaRS	TyrRS	A5
tRNACUA	+	+
GAL4 (2TAG)	+	+

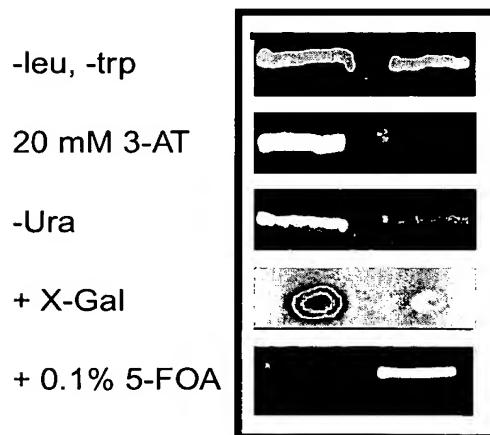


Fig. 8B

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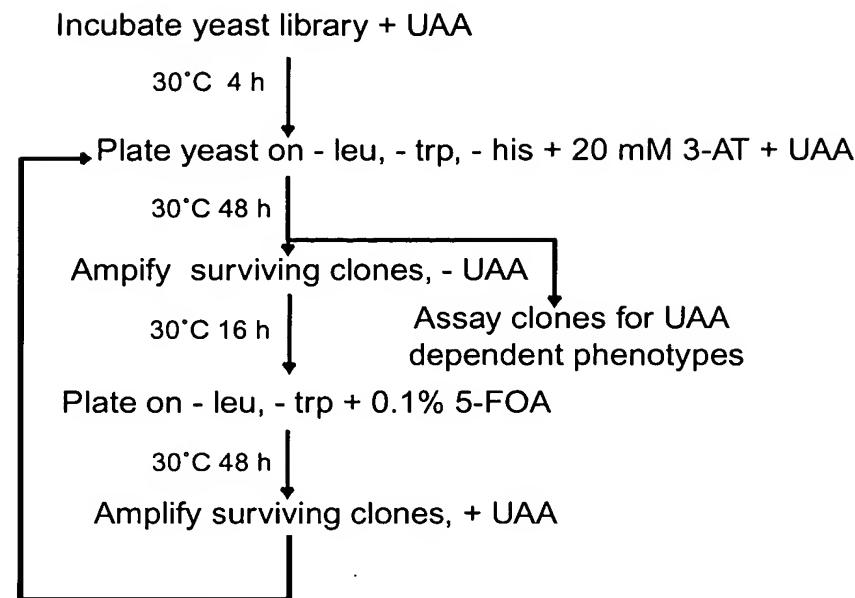


Fig. 8C

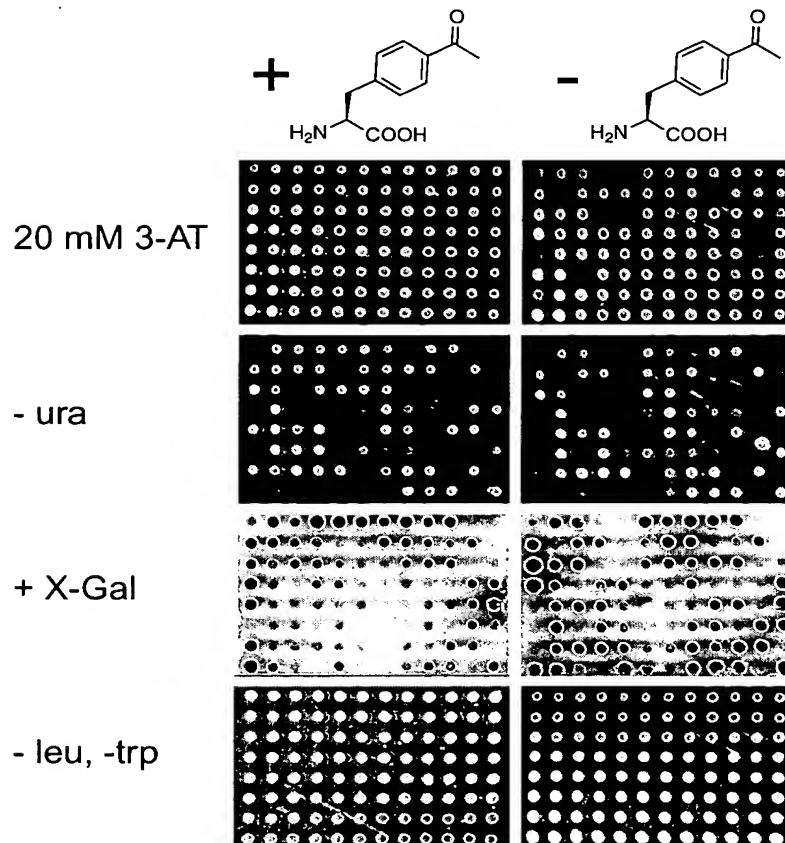


Fig. 8D

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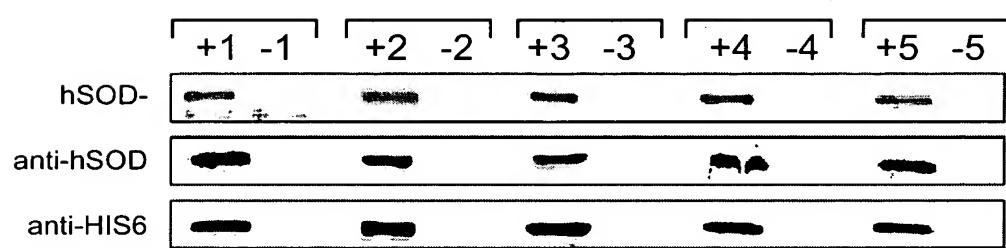


Fig. 9

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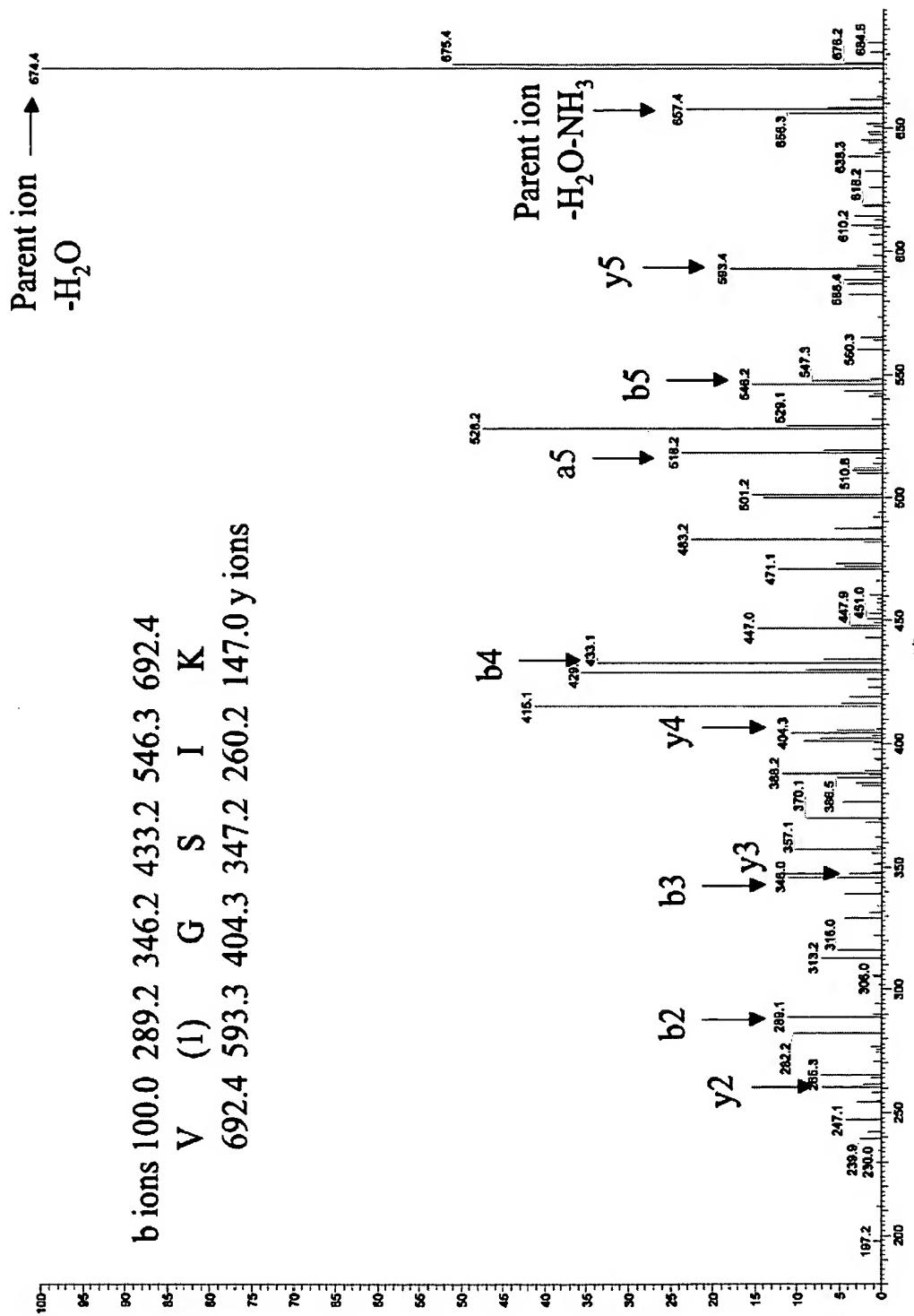


Fig. 10A

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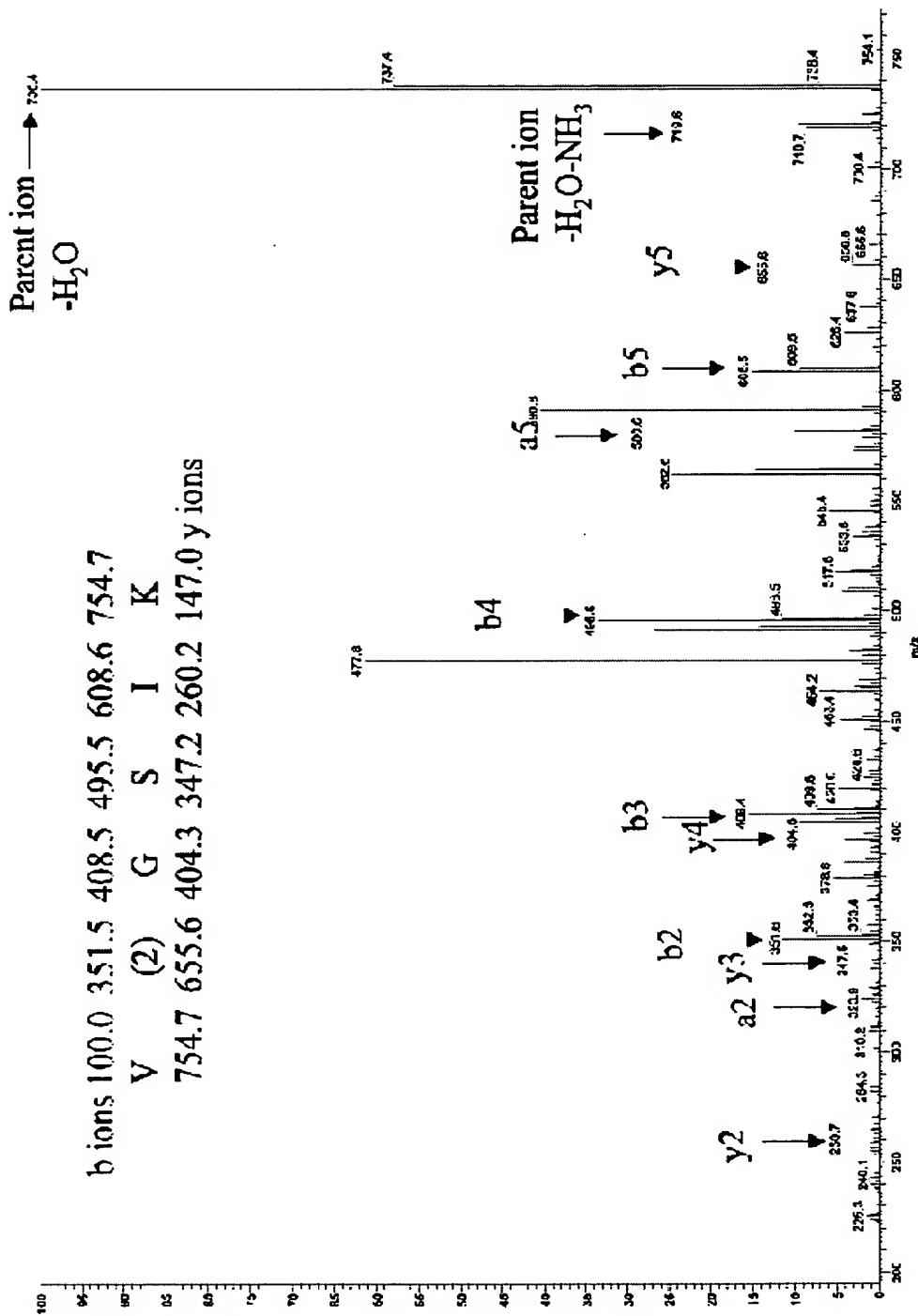
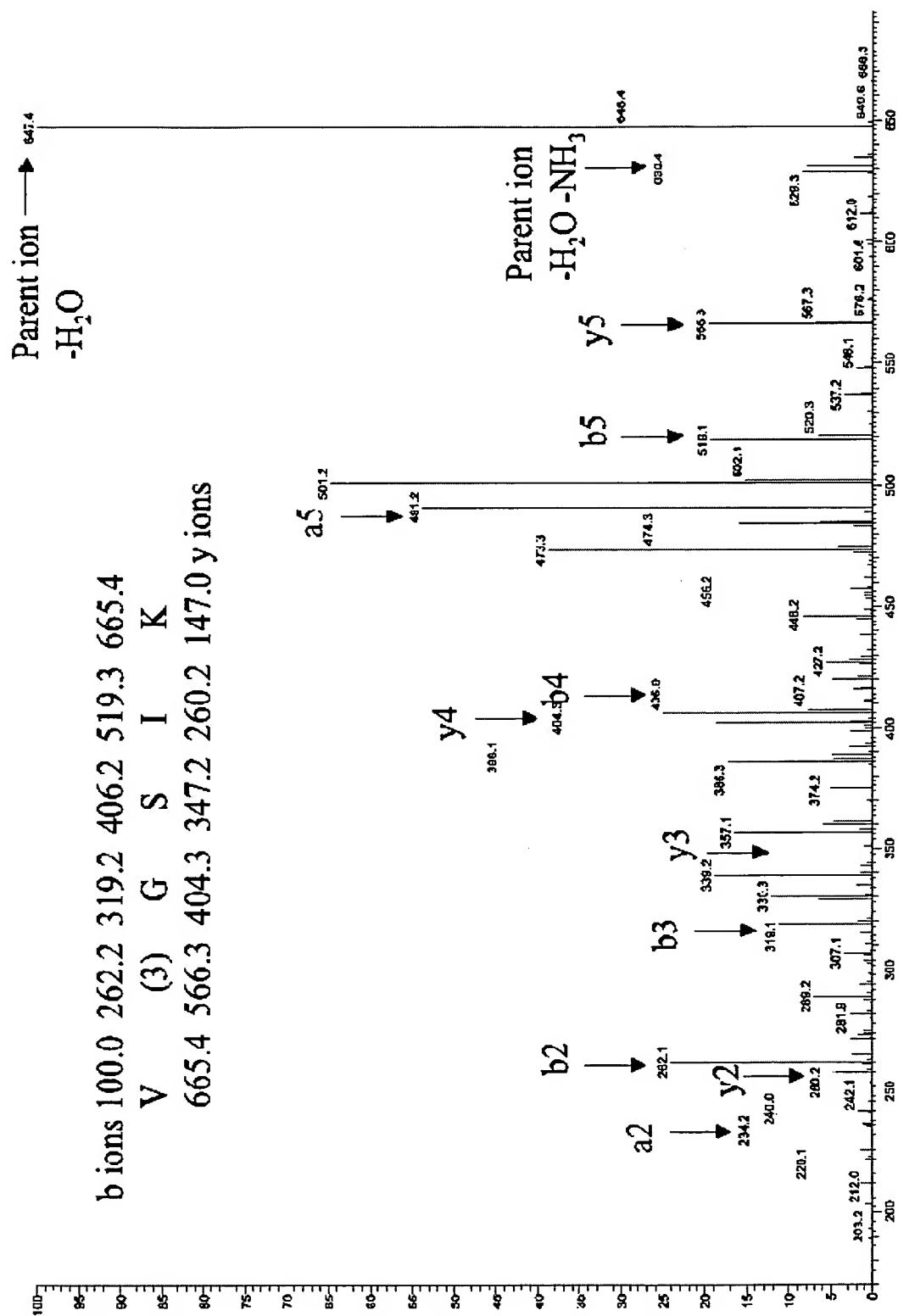


Fig. 10B

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Serial No.: Not yet known

Attorney Docket No.: 54-000250US

Parent ion -
 $\text{-H}_2\text{O}$

b	ions	100.0	277.0	334.2	421.2	534.3	680.4
V	(4)	G	S	I	K		
680.4	581.3	404.3	347.2	260.2	147.0	y ions	

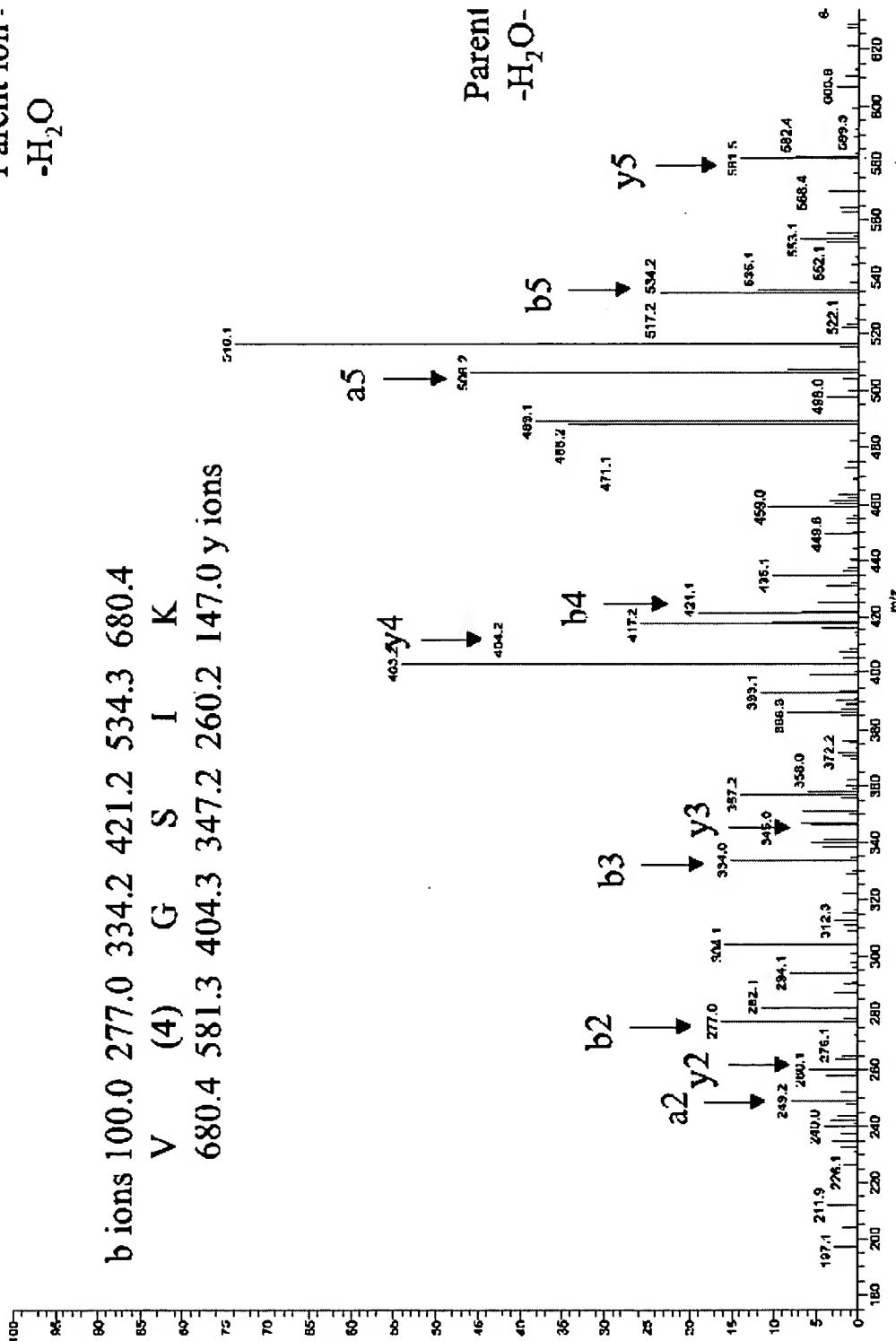


Fig. 10D

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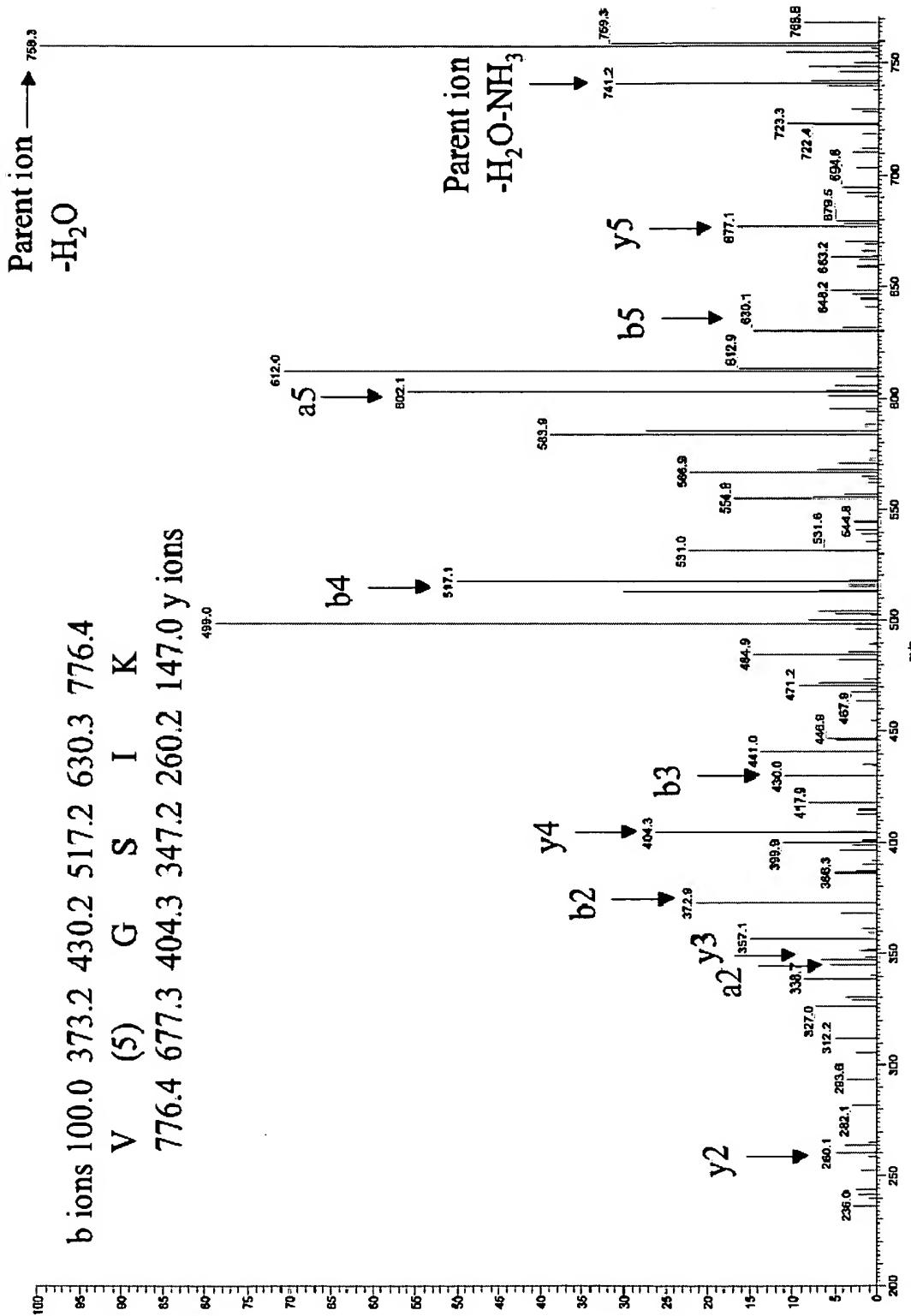


Fig. 10E

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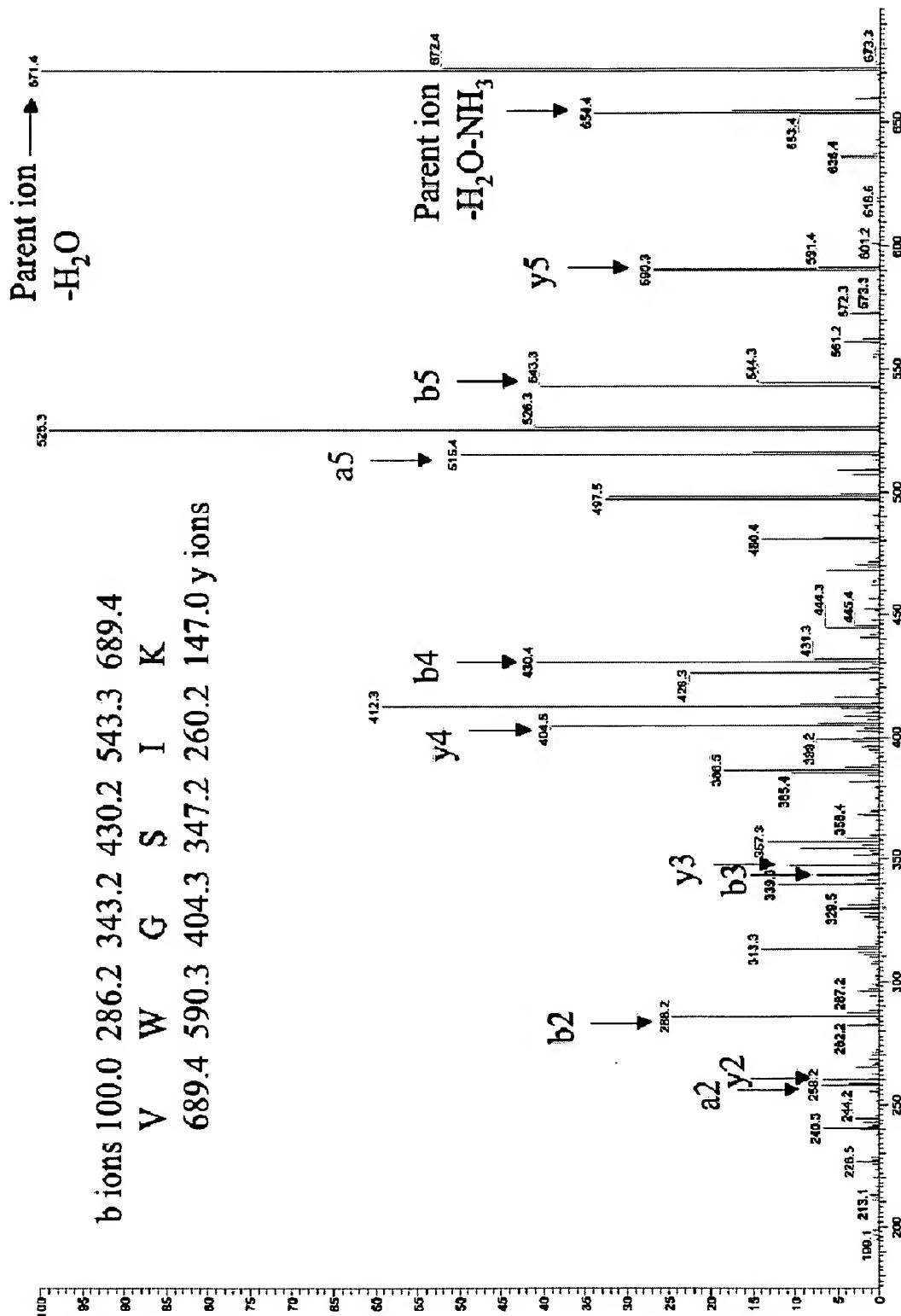


Fig. 10F

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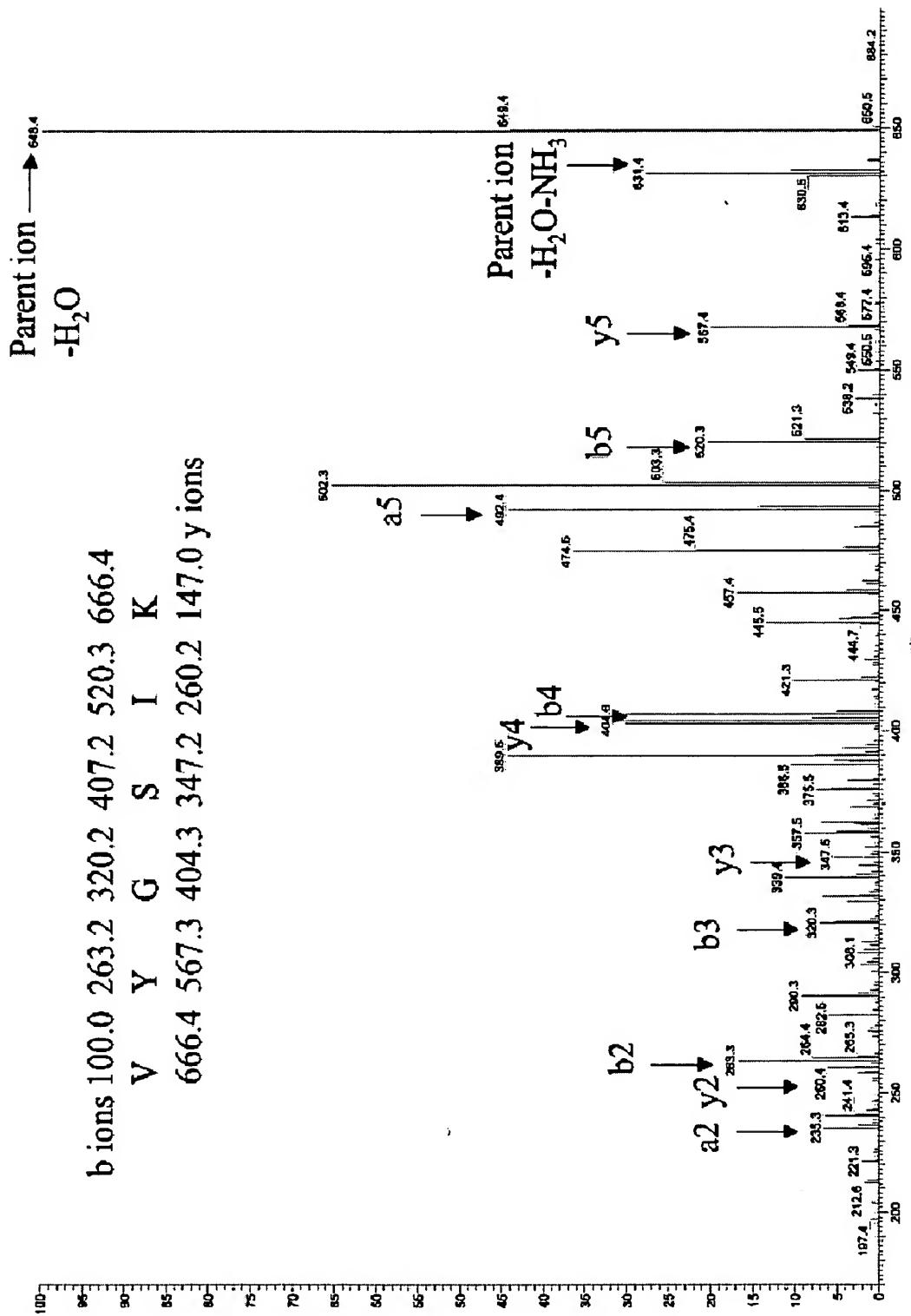


Fig. 10G

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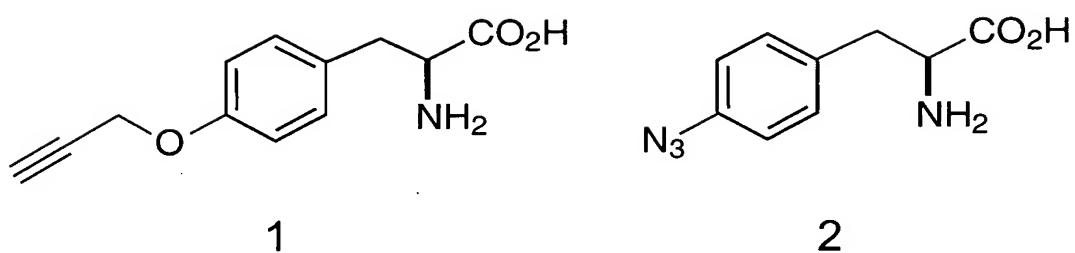


Fig. 11

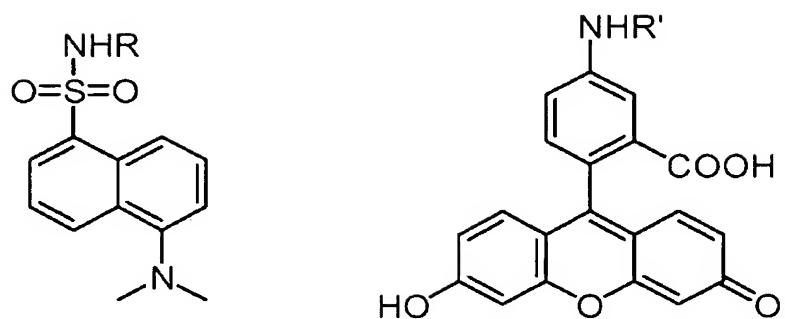
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Fig. 12

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3: R = CH₂≡

4: R = (CH₂)₃N₃

5: R' = CO(CH₂)₈≡

6: R' = CO(CH₂)₃CONH(CH₂)₃N₃

Fig. 13A

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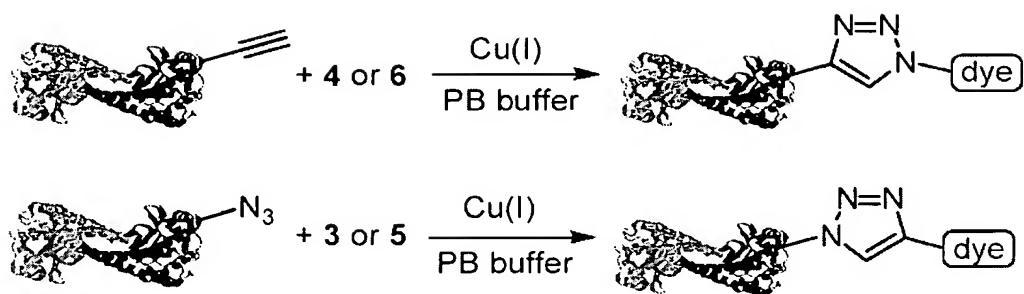


Fig. 13B

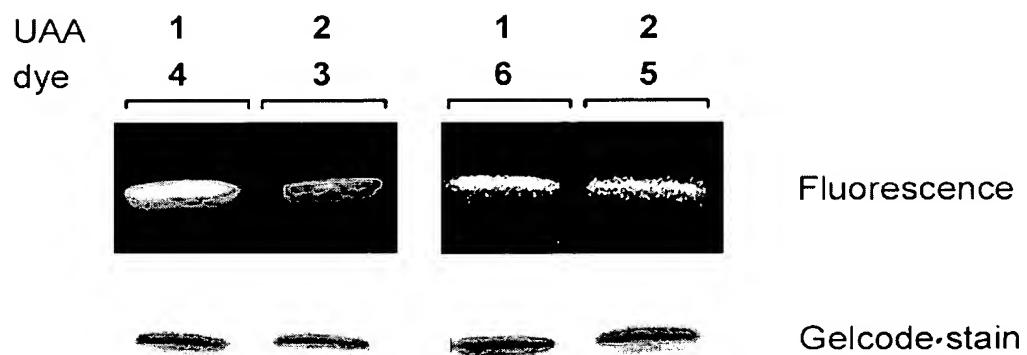


Fig. 13C

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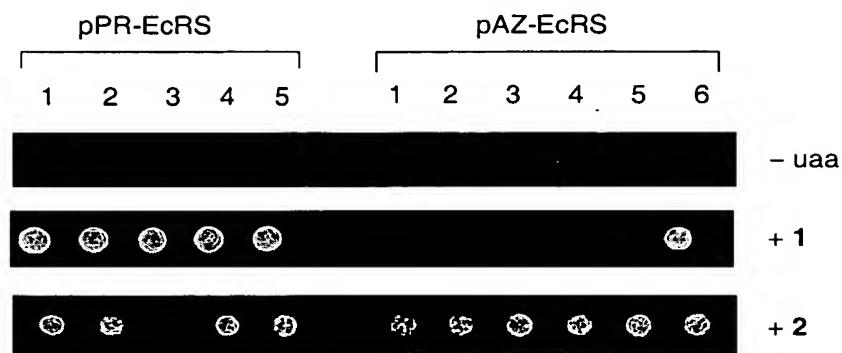


Fig. 14

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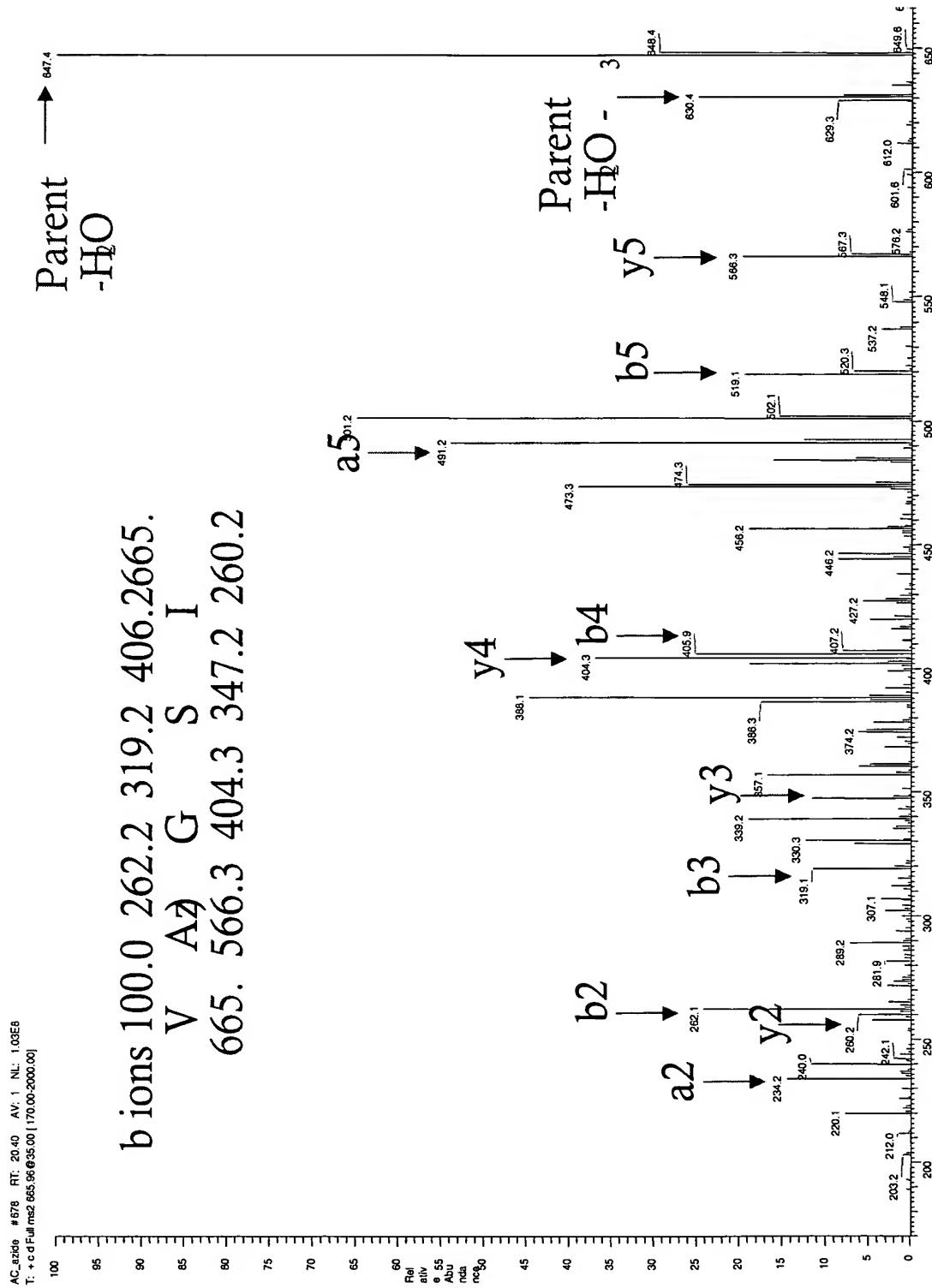


Fig. 15A

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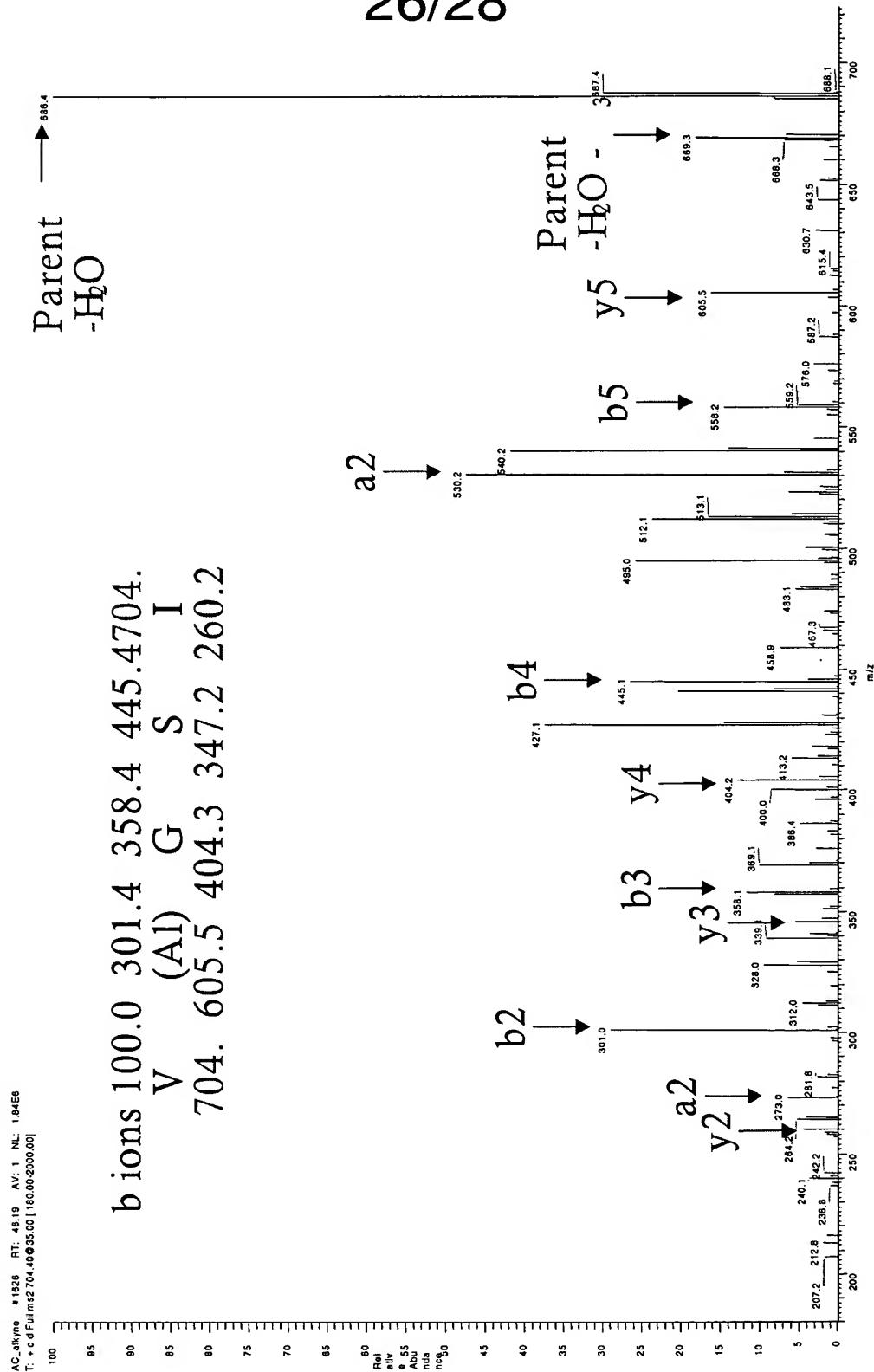


Fig. 15B

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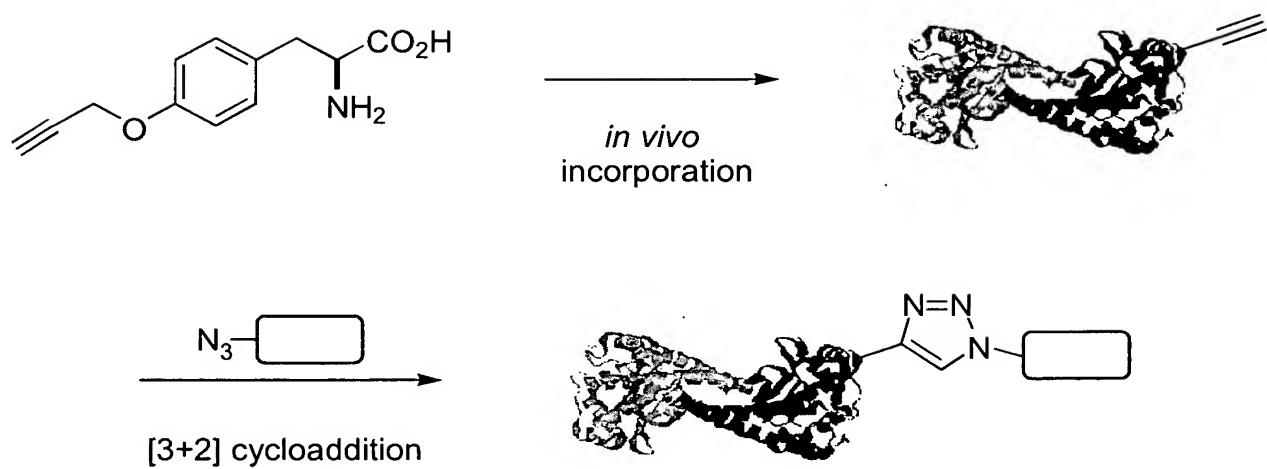


Fig. 16

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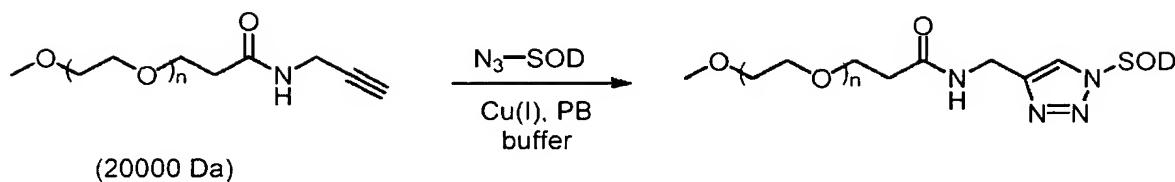


Fig. 17A

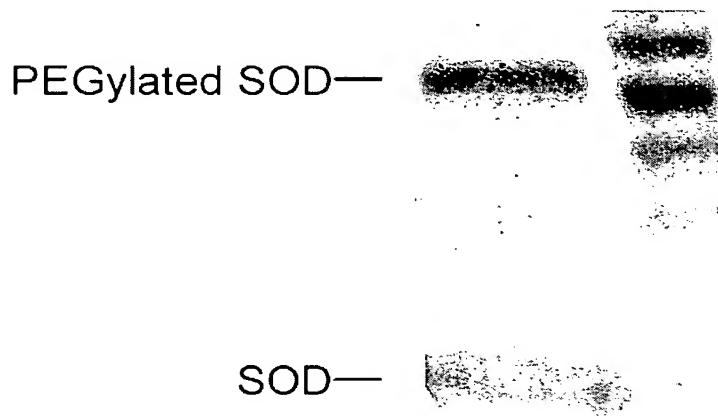


Fig. 17B

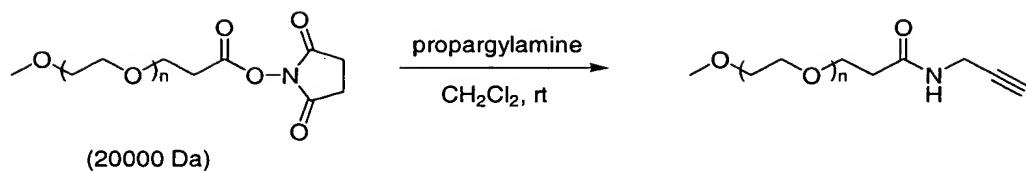


Fig. 17C